

Title (en)  
FUEL CELL SYSTEM

Title (de)  
BRENNSTOFFZELLENSYSTEM

Title (fr)  
SYSTÈME DE PILE À COMBUSTIBLE

Publication  
**EP 4044300 A1 20220817 (EN)**

Application  
**EP 21157492 A 20210216**

Priority  
EP 21157492 A 20210216

Abstract (en)  
In a fuel cell system comprising a first zone (1) and a second zone (2), wherein the first zone (1) comprises a reaction area (4), wherein the second zone (2) comprises a fluidic connection (6, 7), wherein the fuel cell system comprises a decoupling structure (3) located between the first zone (1) and the second zone (2), wherein the decoupling structure (3) is configured to achieve an at least partial thermal decoupling between the first zone (1) and the second zone (2), the fuel cell system is configured to maintain a temperature of the first zone (1) essentially stable during an operation of the fuel cell system.

IPC 8 full level  
**H01M 8/04007** (2016.01); **H01M 8/0432** (2016.01); **H01M 8/04746** (2016.01); **H01M 8/2475** (2016.01); **H01M 8/124** (2016.01)

CPC (source: EP)  
**H01M 8/04007** (2013.01); **H01M 8/04067** (2013.01); **H01M 8/04365** (2013.01); **H01M 8/04776** (2013.01); **H01M 8/2475** (2013.01); **H01M 2008/1293** (2013.01)

Citation (applicant)  
WO 2020044321 A1 20200305 - ECOLE POLYTECHNIQUE FED LAUSANNE EPFL [CH]

Citation (search report)  
• [XY] JP 2005285425 A 20051013 - TOSHIBA FUEL CELL POWER SYS  
• [XY] JP 2004234892 A 20040819 - NISSAN MOTOR  
• [XY] JP 2002075402 A 20020315 - MATSUSHITA ELECTRIC IND CO LTD  
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• [XY] KR 20110045113 A 20110504  
• [XY] KR 20090117214 A 20091112 - HYUNDAI MOTOR CO LTD [KR]  
• [A] KR 20100136662 A 20101229 - HYOSUNG CORP [KR]  
• [Y] US 8273485 B2 20120925 - SCHAEVITZ SAMUEL B [US], et al

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

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